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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/514,338	02/28/2000	Jun Tanabe	00724/P11-225315/AM/CUB/U 8391	
7590 09/13/2005			EXAMINER	
Wenderoth Lind and Ponack 2033 K street N.W.			KIM, CHONG HWA	
SUITE 800			ART UNIT	PAPER NUMBER
Washington, DC 20006			3682	
		DATE MAILED: 09/13/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	09/514,338	TANABE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chong H. Kim	3682				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 06 Ju	ıly 2005.					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>15-32</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>15-32</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D	Pate Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>7/6/05</u> .	6) Other:	atent προμοατίστη (Ε. 1.Ο-102)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Office Ac	tion Cummon	and of Dance No. (Maril Date Coordinate				
T 1 OL-320 (Nev. 7-03) Uffice Ac	tion Summary Pa	art of Paper No./Mail Date 20050905				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Jun 20, 2005 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 30-33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 30 recites the limitation wherein the annular streak pattern is formed due to the "woodmeal being incompletely homogenized" in the thermosoftening resin material. It appears that such language implies the level of "complete homogenization". However, the specification fails to explain at what level is considered a "complete homogenization" in the process of making the rim so that one may understand what is "incomplete homogenization".

Art Unit: 3682

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 15-19, 21, 24, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakada et al., U.S. Patent 5,792,302 in view of Nishibori, U.S. Patent 5,869,138.

Nakada et al. shows, in Figs. 1-5, a steering wheel comprising; an annular rim 1a including;

a core 2;

arcuate-shaped and elongated rim elements 3, 4 mounted on the core 2; wherein an annular streak pattern (as shown in Fig. 3B) extends along a longitudinal axis of each of the elongated rim elements;

a boss section (in the middle of the spoke section 1b) and a spoke section 1b, the annular rim section 1a being connected to the boss section by the spoke section 1b;

wherein the arcuate rim elements include a front-side rim element having a central longitudinal groove 13, and include a rear-side rim element having a central longitudinal groove 13, the core 2 being fit into the central longitudinal groove 13 of each of the front-side rime element and the rear-side rim element so as to mount the rim elements 3, 4 on the core 2 (as shown in Figs. 3-6);

wherein the arcuate rim elements include an outer-side rim element having a central longitudinal groove 13, and include an inner-side rim element having a central longitudinal

Art Unit: 3682

groove 13, the core 2 being fit into the central longitudinal groove 13 of each of the outer-side rime element and the inner-side rim element so as to mount the rim elements 3, 4 on the core 2 (as shown in Figs. 3-6), and the rim elements having a uniform thickness (the rim element 3) substantially equal to a diameter of the core;

a coating covering the arcuate rim elements 2, 4 (as described in column 9, lines 31-5); and

wherein the annular rim section further includes a grip portion 25 formed of flexible urethane and mounted on the core 2 (as described in column 8, lines 56-61 and in column 7, lines 9-11);

but fails to show the rim elements being formed of thermosoftening synthetic material blended with woodmeal so as to have an outer surface of the thermosoftening synthetic resin material and the woodmeal, with an outer surface streak pattern and a color pigment blended therein to show different colors wherein the rim section has surface unevenness.

Nishibori teaches, in column 2, lines 4-20, a material that is made of a thermosoftening synthetic resin (thermoplastic resin) blended with wood meal so as to form a streak pattern (wooden pattern) on an outer surface and wherein a color pigment (colorant) is blended therein so as to have an outer surface of the thermosoftening synthetic resin material and the wood meal, with an outer surface streak pattern on the outer surface includes streaks of different color, and the surface having a surface unevenness.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the steering wheel rim section made of wood of Nakada et al. with the material being made of thermosoftening synthetic resin including wood meal and color

Art Unit: 3682

pigment of Nishibori in order to provide a molded product that contains the wooden grain that of the natural wood with reduced cost compared to the real wood.

6. Claims 20, 22, 23, 25, 26, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakada et al. in view of Nishibori as applied to claims 15, 19, 21, and 24 above, and further in view of Young, Jr. et al., U.S. Patent 3,802,291, in view of Kiyoshi, JP Pub No. 07117326, and in view of Uchida, U.S. Patent 4,581,954.

Nakada et al. in view of Nishibori shows, as discussed above in the rejection of claims 15, 19, 21, and 24, the steering wheel comprising the arcuate-shaped and elongated rim elements formed of thermosoftening synthetic material blended with wood meal so as to form an annular streak pattern on an outer surface thereof, but fails to show a cover member mounted on the seam; the protective coating covering only the front-side portion of the arcuate rim element; a transfer print on a front-side of the annular rim section; and the arcuate rim elements having the first rim having a notch for receiving the core and the second rim having the substantially equal thickness to the diameter of the core to be fitted in the notch.

As to the matter of the cover member mounted on the seam, Young, Jr. et al. shows, in Fig. 3, a steering wheel comprising a seam wherein a cover 106 is mounted on the seam.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to apply the cover as taught by Young, Jr. et al. on the seam of Nakada et al. in view of Nishibori in order to provide a more pleasing design so that the value of the product is maintained.

Art Unit: 3682

As to the matter of the protective coating covering only the front-side portion of the arcuate rim element, it would have been obvious to modify protective coating of Nakada et al. in view of Nishibori by having the protective coating covering only the front-side portion of the arcuate rim element, since applicant has not disclosed that having the protective coating covering only the front-side portion of the arcuate rim element solves any stated problem or is for any particular purpose and it appears that the protective coating would perform equally well by covering other parts of the rim.

As to the matter of the transfer print on a front-side of the annular rim section, Kiyoshi, discloses, in Figs. (a)-(c) and in the Abstract, a steering wheel comprising transfer print on a front-side of the annular rim section wherein the transfer print includes a transfer ink layer having a thickness gradually reduced toward a rear-side of the annular rim section so that a ground pattern formed by the transfer ink layer gradually appears on the annular rim section when viewed from the rear-side toward the front-side.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the rim of Nakada et al. in view of Nishibori with the transfer print of Kiyoshi in order to "raise a decorative design of a product, and a seam of a transfer pattern is made difficult to be visually confirmed" as described in the Purpose of the Abstract by Kiyoshi.

As to the matter of the arcuate rim elements having a first rim having a notch for receiving the core and a second rim having a substantially equal thickness to the diameter of the core to be fitted in the notch, Uchida shows, in Fig. 5, a steering wheel comprising an arcuate rim elements 10' include a first rim element 11 having a longitudinal notch formed therein for

Art Unit: 3682

receiving the core 7, and a second rim element 114 having a thickness (near the core 7) substantially equal to a diameter of the core 7 and being fitted into the notch of the first rim element 11 after the core.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the two halves of Nakada et al. in view of Nishibori with the cover assembly of Uchida in order to provide a more securely engaged mechanism so that the steering wheel would last longer.

Response to Arguments

7. In response to applicant's argument that Nishibori reference does not disclose or even suggest arcuate-shaped and elongated rim elements and that because Nakada already has the outer wooden surface layer with the corresponding wood grain appearance, there would be no reason to modify the Nakada reference using the Nishibori's reference, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). Clearly Nakada teaches a steering wheel with an annular rim section that is in arcuate-shaped and elongated rim elements mounted on the core having an outer surface with annular streak pattern that follows the real wood grain. However, Nakada does not show the rim element having the outer surface being formed of thermosoftening synthetic resin material blended with woodmeal. Nishibori teaches, as discussed above, that one may utilize, as

Application/Control Number: 09/514,338 Page 8

Art Unit: 3682

described in column 2, lines 4-20, a material that is made of a thermosoftening synthetic resin (thermoplastic resin) blended with wood meal so as to form an annular streak pattern (wooden pattern) on an outer surface and wherein a color pigment (colorant) is blended therein such that the annular streak pattern on the outer surface includes annular streaks of different color, and the surface having a surface unevenness. Nishibori also teaches that one of ordinary skill in the art may apply this type of material in automobile vehicles (see column 1, line 50). Therefore, one of ordinary skill in the art can modify the real wood material utilized in Nakada with the resin material blended with woodmeal as taught by Nishibori in order to save money and environment as described in column 1, lines 26-31 by Nishibori.

8. In response to the applicant's argument that the Young, Kiyoshi, and Uchida references do not teach an annular rim section including arcuate-shaped and elongated rim elements mounted on a core, again, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). Nakada reference already teaches the steering wheel having the annular rim section including arcuate-shaped and elongated rim elements mounted on the core. Young, Kiyoshi, and Uchida references are utilized to provide reasons for one of ordinary skill in the art to modify certain aspects of the present invention wherein Nakada/Nishibori do/es not show (see above in paragraph 3 for reasons).

Art Unit: 3682

9. In response to the applicant's argument that the phrase "uniform thickness" describes the entire second rim element and that the phrase does define the metes and bounds, it is the Examiner's position that the phrase "uniform thickness" in claim 28 does not exclusively mean the entire second rim element and that the previous comments about the metes and bounds of the phrase did not mean to convey that there is an indefiniteness. Claim 28 recites that "a second rim element (has) a uniform thickness". Such statement does not suggest that the uniform thickness is provided along the entire length of the second rim element. At most, the phrase suggests that the thickness is uniform in limited length. Whether it is in circumferential, radial or axial direction, the recitation does not further define. Furthermore, the previous Office action stating that "Claim 28 does not specifically define the metes and bounds of the words 'uniform thickness" perhaps should have been phrased as "Claim 28 does not further define the metes and bounds of the phrase 'uniform thickness'". Nevertheless, the recitation "a second rim element (has) a uniform thickness" in claim 28 is broad enough to read on Uchida because Uchida includes a uniform thickness at a location where the element 114 contacts the core 7 along at least a certain length of the core.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chong H. Kim whose telephone number is (571) 272-7108. The examiner can normally be reached on Tuesday - Friday; 7:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on (571) 272-7099. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3682

Page 10

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

chk September 5, 2005

CHỐNG H. KIM